VERTICAL SPEED INDICATOR - MAINTENANCE PRACTICES

1. General

A. The vertical speed indicator, located in the pilot's instrument panel, measures the rate of change in static pressure when the airplane is climbing or descending. It indicates, by means of a pointer located on the face of the instrument, the rate of ascent or descent of the airplane in feet per minute. A zero adjust screw is located on the front of the VSI in the lower left corner to allow for pointer adjustment. An optional, dual, right located vertical speed indicator is also available. Maintenance practices for the right vertical speed indicator are the same as for the left indicator, which is covered in this chapter.

2. Vertical Speed Indicator Removal/Installation

A. Remove Vertical Speed Indicator (Refer to Figure 201).

(1) Remove screws and washers securing removable flight panel (6) and slide flight panel (6) aft to gain access to back of vertical speed indicator (3).

(2) Loosen clamp (1).

(3) Disconnect, cap off, and identify line (2) from fitting (7), located on the back of the vertical speed indicator (3).

(4) Remove screws (4) securing vertical speed indicator (3) and faceplate (5) to flight panel (6).

(5) Remove vertical speed indicator (3) and faceplate (5).

(6) Remove fitting (7) and plug opening in back of vertical speed indicator (3) to avoid possible contamination of the instrument.

B. Install Vertical Speed Indicator (Refer to Figure 201).

(1) Remove plug in back of vertical speed indicator (3) and install fitting (7).

(2) Position vertical speed indicator (3) and faceplate (5) in appropriate opening in flight panel (6).

(3) Install screws (4) securing faceplate (5) and vertical speed indicator (3) to flight panel (6).

(4) Connect line (2) to fitting (7) and tighten clamp (1), located on the back of the vertical speed indicator (3).

(5) Slide flight panel (6) forward and install screws and washers securing flight panel (6) to instrument panel.

3. Vertical Speed Indicator Adjustment

A. A mechanical zero adjust screw (8) is located on the front of the vertical speed indicator (3) in the lower left corner, allowing for pointer adjustment. Turning the zero adjust screw clockwise will make the pointer deflect downward, and turning the zero adjust screw counterclockwise will make the pointer deflect upward. Refer to Figure 201.

Figure 201 : Sheet 1 : Vertical Speed Indicator Installation